

Specification

System 3rd Generation Intel[®] Quad Core™ i7/i5/i3 Ivy Bridge Processors (6M Cache, up to 3.30 GHz) Processor Intel® Mobile QM77 Chipset BIOS

IT8783F DDR3 1066 / 1333 / 1600 MHz, DDR3L 1066 / 1333 MHz

16GB Max., 2 204-pin SO-DIMM Sockets

I/O Port

3 COM RS-232, 1 COM RS-232 / 485 / 422 USB 4 USB 3.0. 2 USB 2.0. 2 Internal USB 2.0 Isolated DIO 8 DI. 8 DO (Optional) Power, SDD and CFast LEDs LED

Expansion

Mini PCle 1 miniPCle Socket: PCle + USB + SIM Card Socket

1 miniPCle Socket: PCle + USB SUMIT A. B 2 SUMIT Slots (Optional 1 Internal 6-pin (Internal USB 2.0) JST Connector

Graphics

Intel® GMA HD 4000 Shared Memory, Up to 1.7GB Display Memor DB-15 VGA / 1920 x 1200 Max DVI-D / 1920 x 1200 Max. Display Port 1 / 2560 x 1600 Max.

Display Port 2 / 1920 x 1200 Max. LVDS / Dual Channel 24-bit / 1920 x 1200 Max.

Realtek ALC892, 5.1 Channel HD Audio

2 SATA III 6Gbps

1 SATA II 3Gbps - Support Horizontal Type SATA DOM mSATA

2 SATA II 3Gbps

Storage Expansion CFast Slot Push In / Out Ejector

Audio Codeo Etherne

Audio

Audio Interface Line-in, Line-out, Mic-in, Front Audio Header

Intel® 82579LM Gigabit LAN, Wake on LAN, PXE Support

LAN2~6 Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support

Power Power Input

One 3-pin Terminal Block for DC-IN: V+, V-, Frame Ground

Power Input Voltage AC to DC +24V / 5A 120W Max. (Optional) Power Adapte

On-board LT4356 for Power Input High Voltage Surge Protection Protection

Trusted Platform Module (TPM)

Infineon SLB9635, LPC interface (Optional) Watchdog Timer Reset: 1 to 255 sec / min Per Step

HW Monitor Temperature / Voltages Auto Throttling Control When CPU Overheats

Mechanical

Chassis Construction Aluminum Housing Size(W x D x H)

260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")

Mounting Wall-mount by Mounting Bracket

ECS-7000-6R

ECS-7000-6G

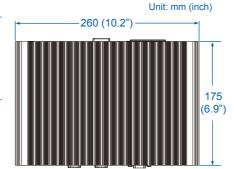
Operating Temperature -25°C to 70°C (-13°F to 157°F) Storage Temperature -40°C to 85°C (-40°F to 185°F)

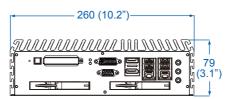
Humidity 10% to 95% Humidity. Non-condensing

Relative Humidity

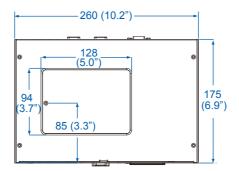
Vibration Random: 0.5Grms @5~500 Hz according to IEC68-2-64

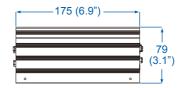
Sinusoidal: 0.5Grms @5~500 Hz according to IEC68-2-64 Operating, 20 Grms, Half-sine 11 ms Duration (w / SSD, According to IEC60068-2-27) *All product specifications are subject to change without prior notice











Order Information

Part Number

6 GbE LAN Fanless Embedded Controller, 2 HDD, Isolated DIO, SUMIT (A, B), iAMT 8.0 ECS-7000-6GDE ECS-7000-6GD

6 GbE LAN Fanless Embedded Controller, 2 HDD, Isolated DIO, iAMT 8.0

6 GbE LAN Fanless Embedded Controller, 2 Front Panel Access Removable HDD with Key Lock, iAMT 8.0

6 GbE LAN Fanless Embedded Controller, 2 HDD, iAMT 8.0

FCS-7000-2R 2 GbE LAN Fanless Embedded Controller, 2 Front Panel Access Removable HDD with Key Lock

ECS-7000-2G 2 GbE LAN Fanless Embedded Controller, 2 HDD

Part Numbe

Ivy Bridge 3rd Gen Intel® Mobile Quad-Core™ i7 Processor i7-3610QE i5-3610ME Ivy Bridge 3rd Gen Intel® Mobile Core™ i5 Processor Ivy Bridge 3rd Gen Intel® Mobile Core™ i3 Processor i3-3120ME

Vecow DDR3 4GB 1333/1066MHz RAM, Wide Temperature -40°C ~ +85°C M340S-W28M1

Kingston® DDR3 8GB PC1333 RAM KVR1333D3S9/8G KVR1333D3S9/4G Kingston® DDR3 4GB PC1333 RAM PWA-120WM4P 120W, 24V, 90VAC to 264VAC power adapter SCSI-20P-100 20-in SCSI Cable, 1M

TMB-SCSI-20P Terminal Board with One 20-pin SCSI Connector and DIN-Rail Mounting

WiFi Module Intel® MiniPCle WiFi Module with Antenna



High Performance, Rugged, Extended Temp, Fanless Embedded System with 6 GbE and Intel® QM77 Express Chipset & Choice of 3rd Gen. Intel® Quad Core™ i7/i5/i3 Mobile Processor



- 3rd Gen Intel® Quad Core™ i7/i5/i3 Ivy Bridge Mobile Processor (6M Cache, up to 3.30 GHz)
- Fanless, -25°C to 70°C Operation Temperature
- 6 GbE LANs for Extended Internet Application
- QM77 System Chipset

Vecow

- Support 2 SO-DIMM DDR3 or DDR3L, up to 16GB
- Isolated 8 DI / 8 DO, GPIO 8 DI / 8 DO
- 2 SATA III (6Gbps) 2.5" HDD / SSD, mSATA

- Built-in Input 80 V_{DC} Overvoltage Protection
- Rich I/O: 4 COM, 4 USB 3.0, 2 USB2.0, 2 Mini-PCle (1 with SIM Card Socket)
- 5 Display Support: 2 DP, DVI-D, VGA, LVDS 3 Independent Displays
- Intel[®] AMT 8.0 Support
- Onboard Trusted Platform Module (Optional)

ECS-7000 series support 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), DDR3L and DDR3 maximum dual channel 16GB ram, 3 independent display (DP, DVI-D, and VGA), isolated DIO, maximum 6 GbE LANs, CFast, two 2.5" SATA 6Gp/s HDD/SSD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module which making ECS-7000 series stand out from others in machine vision and GigE imaging, intelligent automation, surveillance and security, and most of embedded applications. ECS-7000 full series powered by cutting-edge the 3rd Gen Intel® Quad-Core™ i7 Processor (6M Cache, up to 3.3 GHz) not only increasing power efficiency as much as 25% also integrates Intel® HD 4000 graphics and extremely low thermal design power as 35W providing an enhanced reliability, safety and shock resistance for fanless operation required environments. Maximum 6 GbE LAN, ECS-7000 series provide stable and speedy Ethernet with 9.6 kb/s to 1 Gb/s data transmission option for high bandwidth and supports Ethernet Control Automation Technology (EtherCAT).

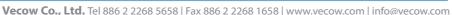












ECS-7000 series Performance Fanless Embedded System

High Performance, Rugged, Extended Temp, Fanless Embedded System with 6 GbE and Intel® QM77 Express Chipset & Choice of 3rd Gen. Intel® Quad Core™ i7/i5/i3 Mobile Processor



ECS-7000-6GDE



Ideal industrial system solution, ECS-7000-6GDE model equipped with 6 GbE LAN, Isolated DIO 8 DI, 8 DO, and SUMIT interface to provide greater effective data transfer rates. ECS-7000-6GDE model also enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module



ECS-7000-6GD



Collecting most industrial useful interfaces, ECS-7000-6GD model has designed with isolated DIO 8 DI, 8 DO and GPIO 8DI, 8DO. Like all other ECS-7000 series, ECS-7000-6GD enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module



ECS-7000-6R



Featuring with 6 GbE LAN and 2 front panel accessible SSD/HDD trays, ECS-7000-6R model also enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.



ECS-7000-6G



For the outstanding console functions, ECS-7000-6G model has designed with 6 GbE LAN ports for various devices to communicate with microcontroller, ECS-7000-6G model not only enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.



ECS-7000-2R



ECS-7000-2R supports 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), 2 GbE LAN, 2 front panel access removable SSD/HDD trays with key locks, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform





ECS-7000-2G



ECS-7000-2G supports 3rd Gen Intel® Quad-Core™ series processo (6M Cache, up to 3.30 GHz), 2 GbE LAN, 2 SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module.

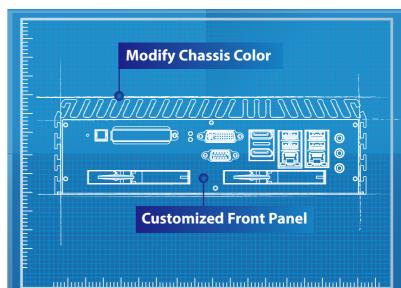




Cost-Efficient









Time-To-Market



Integrated









Intelligent Manufacture System



Intelligent Automation



Medical & Health Care



Surveillance & Security (NVR)